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Self-reported side effects in neuroendocrine tumour (NET) patients prescribed somatostatin analogues - the role for specialist dietitians and nurses

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Study Team

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Background



- Often a change in symptoms after starting somatostatin analogues (SSA's).
- In practice side effects experienced by patients are more common than patient information / literature [1,2] suggests.
- Side effects contribute to a large proportion of NET Dietitian and NET Nurse workload.
- It was therefore important to ask patients about there experience whilst taking SSA's.
- Data can be used to help patients and NET units.









- Assess what symptoms/side effects patients report on SSA's.
- Assess the severity of symptoms/side effects reported by patients whilst on SSA's.
- Produce recommendations on how to deal with symptoms commonly experienced by patients on SSA's.









A survey was posted on social media (twitter), within a closed NET patient support group and an open advocacy site. It was open to anyone worldwide.

Patients were asked 2 questions:

- 1) Which somatostatin analogue they were prescribed
- 2) Rate the severity (0-10) of any symptoms they experience

A list of 11 options was given: constipation, steatorrhoea, diarrhoea, feeling the burden of treatment, vitamin B12 deficiency, hair thinning, nausea, fat soluble vitamin deficiency, weight loss, low glucose level and gallstones.

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- Question 1 was answered by 172 patients.
- -Brand of somatostatin analogue taken was 48% Somatuline (lanreotide) autogel v 52% Sandostatin (octreotide) LAR
- Question 2 regarding side effects and severity was answered by 176 patients.

The most common side effect reported was constipation (85%), with 8.6% of these rating the severity 10/10.

Less comparable findings included:

- 68% of patients feel the burden of treatment.
- Over 62% report vitamin B12 deficiency.
- Over half (52%) report a fat soluble vitamin deficiency.

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Results

NET Patient

Foundation

Symptom	Number effected (rating 1-10/10)	Percentage (%) affected (rating 1-10/10)	% effected on Sandostatin (octreotide) LAR Studies [1]	% effected on Somatuline (lanreotide) autogel Studies [2]
Constipation	150	85.22%	≥ 10%	0.1-9.99%
Steatorrhoea	148	84.09%	0.1-9.99%	0.1-9.99%
Diarrhoea	139	78.97%	≥ 10%	≥ 10%
Feeling burden of treatment	119	67.61%	No data	No data
Vitamin B12 deficiency	110	62.50%	No data	No data
Hair thinning	101	57.38%	0.1-9.99%	0.1-9.99%
Nausea	93	52.84%	≥ 10%	0.1-9.99%
Vit A,D,E,K deficiency	91	51.70%	No data	No data
Weight loss	76	43.18%	No data	0.1-9.99%
Low glucose	75	42.61%	0.1-9.99%	0.1-9.99%
Gallstones	29	16.47%	≥ 10%	≥ 10%

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Conclusion



- Our results show what problems patients report whilst on SSA's, and how severe these are.
- Constipation, steatorrhoea and diarrhoea during SSA use are the most commonly reported bowel symptoms.
- Symptoms and assumed side effects during SSA use may not have been reported to pharmaceutical companies.





Recommendations



- Adverse events' thought to be linked to SSA's must be reported to the pharmaceutical company.
- NET MDT teams should include at least one NET specialist Dietitian in addition to NET Nurses.
- Stool frequency, consistency and colour must be discussed at appointments. Loose stools and constipation both warrant dietary and lifestyle investigation.
- Trial pancreatic enzyme replacement therapy (PERT) if steatorrhoea or weight loss commences after starting SSA's.

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Recommendations



- Consider testing for SIBO/BAM in patients who have diarrhoea or steatorrhoea that has not resolved with anti-diarrhoeal's, PERT, or dietary changes.
- Patients must be screened for malnutrition during all hospital visits.
- Fat soluble vitamins need to be checked before starting somatostatin analogues and ideally every 6-12 months.
- Fat-soluble vitamins need to be supplemented if <200 cm of healthy small bowel remains after resection.





Recommendations



- Vitamin B12 levels should be monitored every 6-12 months.
- Random blood glucose testing?
- Specific direct questions for symptom checking with face to face / QoL questionnaire.
- Offer counselling if the burden of treatment is high.
- NET Resources need to be made available to patients









1. Novartis Pharmaceuticals UK Ltd (2015). Sandostatin LAR. Sandostatin LAR (PIL).

2. Ipsen Ltd (2015). Somatuline Autogel 60mg, Somatuline Autogel 90mg, Somatuline Autogel 120mg New device. Summary of Product Characteristics.









Thank you!

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